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09/806,544	07/02/2001	Ponani Gopalakrishnan	YOR9-1998-0392US2	1137

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EXAMINER
BULLOCK JR, LEWIS ALEXANDER

ART UNIT	PAPER NUMBER
2195	

DATE MAILED: 07/11/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

Office Action Summary	Application No. 09/806,544	Applicant(s) GOPALAKRISHNAN ET AL.	
	Examiner Lewis A. Bullock, Jr.	Art Unit 2195	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) FROM
THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
  after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any
  earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *23 May 2005*.

2a)☒ This action is **FINAL**.   2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is
    closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *23-31,33-45,47-91 and 93-100* is/are pending in the application.

   4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *23-31,33-45,47-91 and 93-100* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *02 July 2001* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

   Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

   Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   a)☐ All   b)☐ Some *   c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage
          application from the International Bureau (PCT Rule 17.2(a)).

   * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☐ Notice of References Cited (PTO-892)
2)☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3)☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
    Paper No(s)/Mail Date *4/20/05*.

4)☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____ .
5)☐ Notice of Informal Patent Application (PTO-152)
6)☐ Other: _____ .

DETAILED ACTION

Claim Rejections - 35 USC § 103

1.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set
> forth in section 102 of this title, if the differences between the subject matter sought to be patented and
> the prior art are such that the subject matter as a whole would have been obvious at the time the
> invention was made to a person having ordinary skill in the art to which said subject matter pertains.
> Patentability shall not be negatived by the manner in which the invention was made.

2.   Claims 23-31, 33-45, 47-91 and 93-100 are rejected under 35 U.S.C. 103(a) as

being unpatentable over LADD (U.S. Patent 6,269,336).

        As to claim 23, LADD teaches a conversational browser (voice browser),

comprising: means for interpreting a user command (voice input) and for generating a

request (content request) to access a CML file (markup language document), wherein

CML comprises meta-information implementing a conversational dialog for interaction

with the user in a plurality of user interface modalities (col. 3, lines 40-46; col. 4, lines

36-43; col. 4, lines 52-58); and a CML processor (parsing unit) for parsing and

interpreting a CML file to render the conversational dialog in one or more of the plurality

of user interface modalities (col. 11, lines 25-49; col. 11, line 66 – col. 12, line 24; col. 3,

lines 40-46; col. 4, lines 36-43; col. 4, lines 52-58). It would be obvious to one skilled in

the art that browser means for interpreting is a voice interface for receiving the voice

commands.

        As to claims 24 and 25, LADD teaches a conversational browser (voice browser)

of a computing device that provides a conversational user interface to render a

conversational dialog (col. 11, lines 25-49). LADD also teaches that variations and modifications may be practiced on the system (col. 2, lines 10-14). However, LADD does not teach that the browser executes on top of an operating platform. Official Notice is taken in that it is well known in the art that a browser executes on a virtual machine to send and handle remote request and therefore would be obvious in view of LADD in order to send and handle voice requests.

As to claims 26-29, LADD teaches a dialog manager (VRU server / interpreter unit) for managing and controlling the conversational dialog wherein the dialog manager allocates conversational engines (test to speech unit / automatic speech recognition unit) for rendering the conversational dialog by meta-information of a CML file (col. 9, lines 1-53; col. 13, lines 41-60).

As to claims 30, 31, 33 and 34, LADD teaches the user input command (voice input) can be input in the one or more user interface modalities (col. 11, lines 31-35; col. 3, lines 40-46; col. 4, lines 36-43; col. 4, lines 52-58; col. 2, lines 48-66), the CML is implemented in a declarative format encapsulating multi-modal dialog (col. 16, lines 5-56). Official Notice is taken in that it is well known in the art that XML is a markup language and therefore would be obvious that the markup language of LADD is XML.

As to claims 35-38, LADD teaches the input commands to the browser are voice commands (col. 11, lines 26-36). Therefore, it would be obvious to one skilled in the art

that the since the commands are voice commands that navigates to a web page that the
browser implements a "what you hear is what you can say", a "say what you heard", a
"say what you will hear", and a "mixed initiative dialog formats.

As to claim 80, LADD teaches a method for accessing information, comprising
the steps of: processing an input command (voice input) with at least one of a plurality
of conversational engines (network fetcher); generating a request (content request)
based on the processed input command (voice input) to access a CML file (markup
language document) from a content server (mark up language server), the CML file
comprising meta-information to implement a conversational dialog in a plurality of user
interface modalities (col. 3, lines 40-46; col. 4, lines 36-43; col. 4, lines 52-58);
transmitting the request (content request) and accessing the requested CML file from a
content server using a standard networking protocol; and processing the meta-
information comprising the CML file to render the conversational dialog in one or more
of the plurality of user interface modalities (via parsing the information and executing the
file using the browser to display and/or play sound) (col. 11, lines 25-49; col. 11, lines
66 - col. 12, line 25; col. 14, lines 3-17; col. 2, lines 20-39; col. 2, line 59 – col. 3, line
5).

As to claims 81 and 82, LADD teaches a conversational browser (voice browser)
of a computing device executes the steps (col. 11, lines 25-49). LADD also teaches
that variations and modifications may be practiced on the system (col. 2, lines 10-14).

However, LADD does not teach that the browser executes on top of an operating

platform. Official Notice is taken in that it is well known in the art that a browser

executes on a virtual machine to send and handle remote request and therefore would

be obvious in view of LADD in order to send and handle voice requests.

As to claims 84 and 85, LADD teaches customizing the CML file (markup

language document) based on the conversational capabilities of the browser (the

structure of the language can be designed specifically for voice applications); and

registering the capabilities with the content server (via storing the files on markup

language servers) (col. 15, line 60 – col. 16, line 21).

As to claim 83, LADD teaches the steps are distributed using a conversational

engine (test to speech unit / automatic speech recognition unit) and conversational

arguments (request data / document attributes) (col. 11, lines 25-49; col. 9, lines 1-53;

col. 13, lines 41-60).

As to claim 86-88, LADD teaches transcoding legacy content of the content

server (information from the information sources) into CML based on predefined

transcoding rules (via the parser unit) (col. 12, lines 15-24; col. 5, lines 8-11).

As to claim 89, LADD teaches processing the meta-information comprises

playing back an audio file or generating synthesized speech output (col. 4, lines 50-61).

As to claims 90, 91 and 93, LADD teaches the CML is implemented in a declarative format encapsulating multi-modal dialog (col. 16, lines 5-56). Official Notice is taken in that it is well known in the art that XML is a markup language and therefore would be obvious that the markup language of LADD is XML.

As to claims 94-100, LADD teaches the CML (via markup language document) comprises one of (1) a top level element that groups other CML elements; (2) an element that specifies output to be spoken to the user (3) a menu element for encapsulating a menu that presents the user with a list of choices wherein each choice is associated with a target address identifying a CML element to visit if the corresponding choice is selected; (4) a form element for encapsulating a form that allows the user to input at least one item of information and transmit the at least one item of information to a target address; and (5) a combination thereof (col. 16, lines 29 – col. 17, line 49).

As to claim 39, LADD teaches a system for accessing information (information), comprising: a content server (mark up language server) comprising content pages (mark up language documents), wherein the content pages are implemented using a CML (mark up language) to describe a conversational dialog for interaction with a user in a plurality of user interface modalities (view and audio) (col. 15, line 60 – col. 16, line 57; col. 3, lines 40-46; col. 4, lines 36-43; col. 4, lines 52-58); and a conversational

browser (voice browser) for processing a CML page received from the content server to render its conversational dialog in one or more of the plurality of user interface modalities (col. 11, lines 25-49; col. 11, line 66 – col. 12, line 24; col. 3, lines 40-46; col. 4, lines 36-43; col. 4, lines 52-58). However, LADD does not teach that the browser executes on top of an operating platform. Official Notice is taken in that it is well known in the art that a browser executes on a virtual machine to send and handle remote request and therefore would be obvious in view of LADD in order to send and handle voice requests.

As to claims 40-44, LADD teaches the system comprises an IVR system implemented in CML (system capable of handling a voice markup language document) (col. 11, lines 25-49; col. 14, lines 3-17) and accessibly over a packet-switched network using a standard network protocol (col. 2, lines 26-39).

As to claims 45 and 47-51, LADD teaches the CML is implemented in a declarative format encapsulating multi-modal and speech dialog (col. 16, lines 5-56; col. 16, line 58 – col. 17, line 49). Official Notice is taken in that it is well known in the art that XML is a markup language and therefore would be obvious that the markup language of LADD is XML.

As to claims 52-54, LADD teaches a conversational browser (voice browser) on a computing device communicating over a communications network (col. 11, lines 25-49).

LADD also teaches that variations and modifications may be practiced on the system

(col. 2, lines 10-14). However, LADD does not teach that the browser executes on top

of an virtual machine. Official Notice is taken in that it is well known in the art that a

browser executes on a virtual machine to send and handle remote request and

therefore would be obvious in view of LADD in order to send and handle voice requests.

As to claims 55 and 56, LADD teaches standard network protocols are utilized for

accessing CML content pages from the content server (col. 5, lines 37-62; col. 2, lines

26-39).

As to claims 57-62, LADD teaches transcoding legacy content of the content

server (information from the information sources) into CML based on predefined

transcoding rules (via the parser unit) (col. 12, lines 15-24; col. 5, lines 8-11).

As to claims 63-71, LADD teaches CML (via markup language document)

comprises a plurality of capability-based frames, an active link, a link to conversational

data files, a link to at least one distributed conversational engine, a link to an audio file

for playback, a confirmation message tag, TTS markup, scripting language and

imperative code, and a link to one of a plug-in or an applet for executing a

conversational task (col. 16, line 29 – col. 17, line 49).

As to claims 72-79, LADD teaches the CML (via markup language document) comprises one of (1) a top level element that groups other CML elements; (2) an element that specifies output to be spoken to the user (3) a menu element for encapsulating a menu that presents the user with a list of choices wherein each choice is associated with a target address identifying a CML element to visit if the corresponding choice is selected; (4) a form element for encapsulating a form that allows the user to input at least one item of information and transmit the at least one item of information to a target address; and (5) a combination thereof (col. 16, lines 29 – col. 17, line 49).

Response to Arguments

3.   Applicant's arguments filed 5/23/05 have been fully considered but they are not persuasive. As to claims 23-31, 33-45, 47-91, and 93-100, Applicant argues that Ladd does not disclose or suggest conversational browsers or system for processing CML documents which comprise meta-information to enable interaction with the user in a plurality of user interface modalities to render the dialog in one or more user interface modalities. Applicant states that Ladd merely discloses a system in which a voice browser is capable of processing speech markup file and rendering a speech/audio interface only. The examiner disagrees. Ladd states that the network access apparatus of the system allows the user to access (i.e., view and/or hear) the information retrieved from the information source wherein the information is in the form of machine readable data, human readable data, audio or speech communications,

textual information, graphical or image data, etc (col. 3, lines 40-46). The output can
include a speech communication, textual information, and/or graphical information (col.
4, lines 50-58). Because the output information is both spoken and displayed there
exist a plurality of user interface modalities, i.e. visual and audio. Therefore, Ladd
teaches the browser system for processing CML documents having meta information
(requested information) to enable interaction with the user in a plurality of user interface
modalities as disclosed in the claims. Therefore, the rejection is maintained as detailed
above.

Conclusion

4.   **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time
policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE
MONTHS from the mailing date of this action. In the event a first reply is filed within
TWO MONTHS of the mailing date of this final action and the advisory action is not
mailed until after the end of the THREE-MONTH shortened statutory period, then the
shortened statutory period will expire on the date the advisory action is mailed, and any
extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of
the advisory action. In no event, however, will the statutory period for reply expire later
than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lewis A. Bullock, Jr. whose telephone number is (571) 272-3759. The examiner can normally be reached on Monday-Friday, 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng An can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LEWIS A. BULLOCK, JR.
PRIMARY EXAMINER

July 5, 2005.